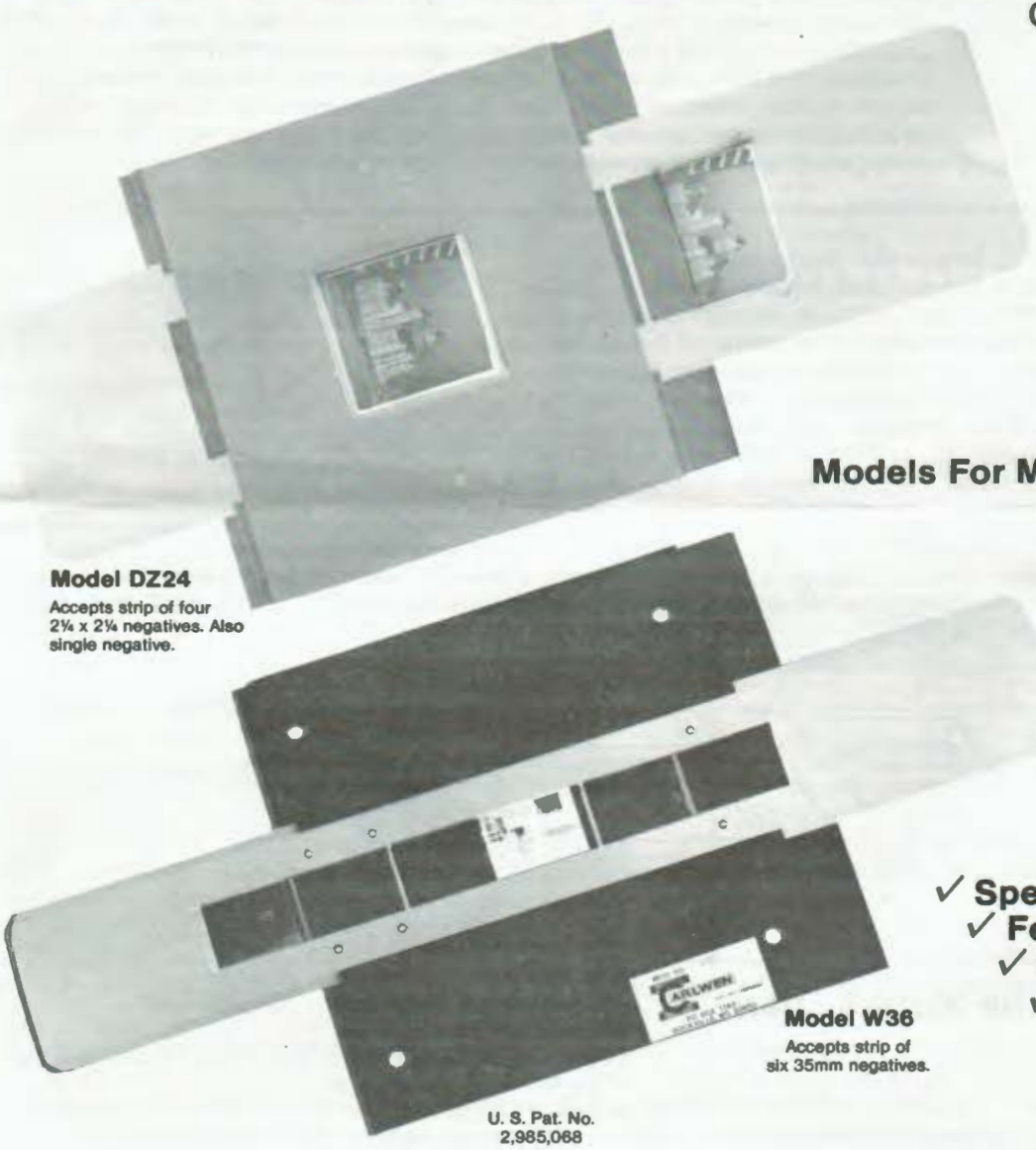
CARLWEN
NEGATIVE CARRIER

Carriers For:
- ✓ Film (strip or single)
- ✓ Scratched Negative
- ✓ Glass Plates
- ✓ Proofing
- ✓ Slides



Models For Most Enlargers

Model DZ24
Accepts strip of four 2¼ x 2¼ negatives. Also single negative.

Model W36
Accepts strip of six 35mm negatives.

U. S. Pat. No. 2,985,068

- ✓ Speeds Up Your Enlarging
- ✓ Fewer Scratched Negatives
- ✓ Dust Easily Removed
- ✓ Saves You Money
- ✓ Rapid Shift

DESIGN FEATURES: The Carlwen Negative Carrier has been designed to accept a strip of negatives, single negatives or glass plates. The film negatives are held in a flat plane between two frames which are inserted in a channel in the base. Glass plates are held in a recessed opening in the frame. Either type will fit the same base within frame widths as described in the price list. The frames are shifted laterally to position each image above the aperture in the base for viewing, focusing and enlarging.

The base is positioned in the enlarger in the same manner as any ordinary negative holder. Once positioned, however, there is no further need to raise and lower condensers, light housings or bellow frames.

Carriers are machined from anodized high-strength aluminum and heat- and wear-resistant graphite phenolic, needing no lubrication. This negative carrier is an accurate smooth operating piece of equipment you should never be without.

PRINT FASTER AND BETTER: Each negative in the strip can be viewed or printed without handling each negative or shifting condensers, bellow frames or light housings.

FEWER SCRATCHES: Scratches caused by ordinary holders are eliminated because once the negative strip or plate is inserted in the frame the image area does not come in contact with any surface. Should you have scratched negatives you can apply any of various eliminators without contaminating the carrier.

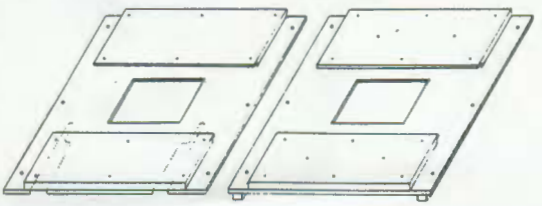
DUSTING MADE EASY: Negatives can be dusted without removing them from the frame or shifting condensers or bellows—just slide the negative frame so the negative to be enlarged is outside the base. Negatives inserted upside down or inverted are corrected merely by reversing the sliding frame in the base.

TESTED: Used by commercial, industrial, scientific, news photographers and amateurs with outstanding results and savings.

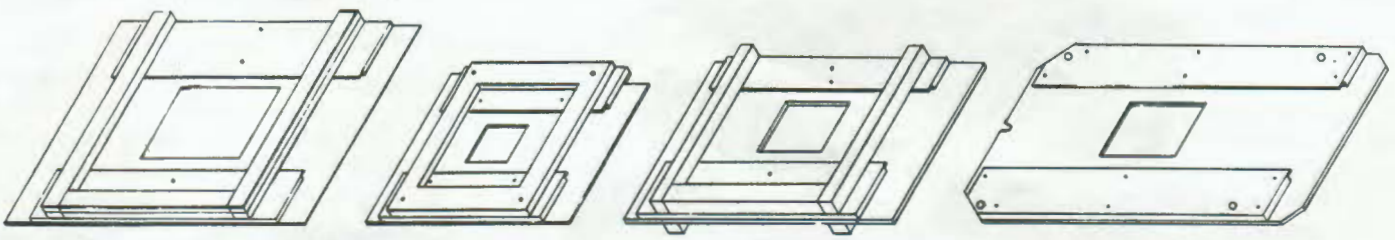
CARLWEN INDUSTRIES, INC.
CARLWEN®
P.O. BOX 1748
ROCKVILLE, MARYLAND 20850
(301) 469-6671

MULTISHIFT BASE: For use with 36-3, 37-3, 19-3 or 20-3 frames. This base permits the multistrip 35mm frames to move in both the x and y directions without raising the enlarger head. Each one of the images in all three strips can be positioned above an opening in the base. This masks out all other images and facilitates the printing of just one of the images as distinguished from proofing nine images at one time. The pressure applied on the frame by this type of base is nearly equal to that obtained in standard base and frame units, thereby making it practical to make full size prints using the 3-strip frame types. With certain enlargers it may be necessary to use an 80mm enlarging lens.

AXIAL CENTERING BASE: (Base No. X). This base is designed so that it can be shifted underneath the condenser in a forward and backward motion. This movement, coupled with the lateral shift of the plate or film frame, makes it possible to position any point on the negative area in the center of the optical system of the enlarger. This positioning is particularly desirable when extremely large magnifications are made, as it is generally desired with negatives made in ELECTRON or other type of MICROSCOPES. This base is for use with Omega D2, D3, D3V, D6, B8, and Beseler 4 x 5 series enlargers. CARLWEN bases J, K, L and H for Durst enlargers can be shifted to produce the same axial centering affect.



CARRIER BASES: Shown below are illustrations of the general configurations of some of the more popular Carlwen bases. For emphasis the illustrations are not necessarily to size. Types A, D, DZ, E, F, T, W and Z are similar to those shown on page 1.



Types L, LB, LN, MD, K | Type GN | Types H, Q | Types LP, Y, C

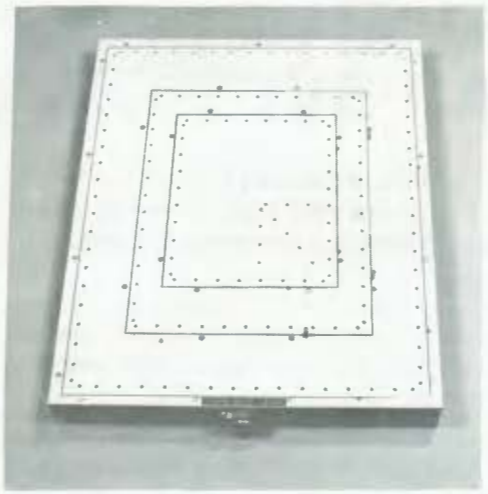
Negative Carriers for the Kodak Disc

Two new negative carriers to accomodate the Kodak Disc have been added to the Carlwen line of negative carriers. The unit shown below as Model KDF is intended to be used with a standard Carlwen enlarger adapter which accomodates the slide through film frame. The frame for the disc consists of a lower and upper plate between which the disc is placed. The frame has a round opening for the disc hub, a small rectangular opening for the image to project through and a large rectangular opening. The large rectangular opening is provided for those who make a measurement with the negative removed from the optical path. A pin opposite the image compartment fits into one of the disc notches to keep the negative in register with the negative opening. This unit is intended for low volume printing.

The carrier shown as Model KDC is made so that each negative on the disc can be positioned for printing without removing the enlarger adapter unit or the disc holder ring. The disc is placed into the disc holder ring and then the holder ring is inserted into the adapter from the right side. A portion of the holder ring remains outside the adaptor for ease in turning the disc to the next negative to be printed. The number of the negative can be viewed on the easel as the slide holder is turned to position each successive negative. The carrier is designed such that once the adapter is placed in the enlarger it need not be removed to remove or reinsert the ring holding the negative disc. The thickness of the ring is such that it accomodates the hub of the negative disc.

Model KDF

Model KDC



16 x 20 Vacuum Easel

The Carlwen vacuum easel is designed to hold paper or film up to 16 x 20 inches. The Carlwen easel can be used for making borderless prints while holding the paper flat to the easel. Edge flatness is efficiently accomplished by a valve which, when adjusted, directs the suction to the size of print being printed: 4x5, 8x10, 11x14, 16x20.

Paper positioning on the easel is accomplished by placing it against the steel taper pins which are inserted at various points corresponding to the paper sizes. This is very convenient when working in total darkness.

We have found only one compact and reasonably priced vacuum that can be efficiently used with this easel. The vacuum can either be purchased through us or directly from your local store. The vacuum is the Hoover Portapower Vacuum. This vacuum needs a plastic adaptor to connect the vacuum hose to the easel. The adaptor is included with the easel.

MULTIPLE STRIP 35mm PROOF-TYPE FRAME: Frame holds 3 strips of 35mm or Instamatic (6 negative areas per strip) and prints half of these at one time using a 4 x 5 enlarger. Useful for proof printing 9 small-size prints in one operation. On 16 x 20 paper the images measure approximately 4 x 6 inches. Available with film edge number slots (Mod. 37-3 & 20-3) or without (Mod. 36-3 & 19-3).

FRAMES FOR HANDLING MOUNTED SLIDES: Two types of frames are offered: Mod. 97 holds five 2 x 2 paper mounted slides and Mod. 98 holds four 2 x 2 mounted slides in any type of mount. The opening in the frame is equal to super slides. Both frames can be used with all Carlwen bases which accept 4 inch wide frames. If only paper mounted slides are to be processed, Mod. 97 is recommended since it holds the mounts flat. In Mod. 98 the slides lay on a ledge similar to glass plate frame.

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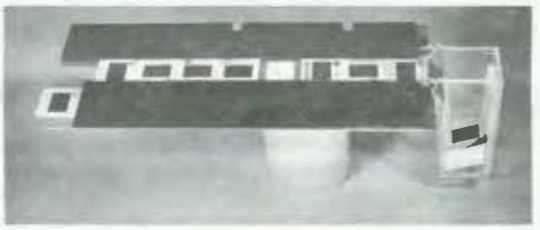
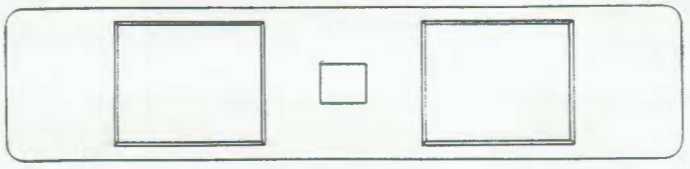
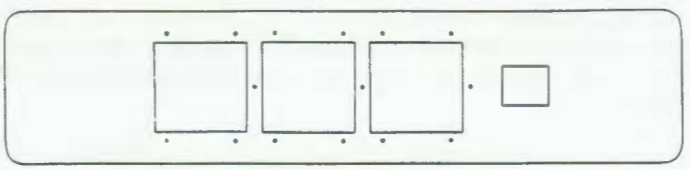
2 x 2 READY-MOUNT SLIDE CARRIER: Accepts 2 x 2 Ready-Mount slides for printing. The slides are fed into one end of the carrier. On the opposite end is a receptacle into which the slides fall ready for return to the film containers. A notch in the base at the insert end provides a means for registering each slide above the lens. The slide receptacle is removable for storage. Made on order only. Mod. RM. Indicate enlarger make and model number on order.







ELECTRON MICROSCOPE ROLL, AND SHEET FILM OR GLASS PLATE CARRIERS: Carlwen makes standard carriers or special size carriers for use with film exposed in electron microscopes. One of the samples is for glass plates and the other is for sheet film. Each frame shown has a smaller opening which is used for installation of the critical focusing and measurement target. (See price list for standard frames available).

FLUID IMMERSION FRAMES

IDEAL FOR INTERNEGATIVES
ELIMINATES DUST PROBLEMS
NEUTRALIZES SCRATCHES, CINCH MARKS AND FINGERPRINTS

MODEL #'s FIF 35, FIF 70, FIF 45: These frames are designed to project negatives immersed in a silicone fluid which neutralizes the effect of scratches, cinch marks, dust particles or oily fingerprints on enlargements. The fluid has no softening effect on the emulsion and will dry without any harm to the negatives. If wiped off with tissue such as Photowipes, the negative can be returned to the files immediately. The fluid is removed and reused.

The frame has a thin high-quality glass bottom through which the image is projected. Curled film strips are held in place by a glass plate. This assembly is inserted in a standard Carlwen negative carrier base and shifts laterally to make each successive exposure. Usable in most standard Carlwen base units for Beseler, Durst, Leitz and Omega enlargers. Special bases for other enlargers are required. Frames are supplied in three sizes: 35mm, 70mm, and single 4x5 sheet film.

FLUID

Currently we are selling a fluid for use in the carrier called Decahydronaphthalene. You may find other fluids or oils that you can use. Keep in mind that you shouldn't use a fluid that will soften the emulsion as would a water soluable fluid. We suggest that you use an eyedropper to insert the fluid in the film compartment. If you return the fluid to the container, it should be strained.

SUGGESTIONS FOR INSERTION OF THE FLUID AND NEGATIVE

The following is one method. You may try different methods until you find one that works well for you.

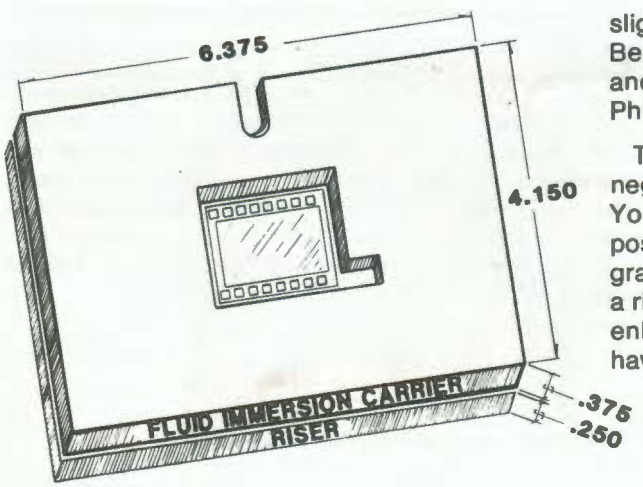
Place about 8 drops of fluid at the left end of the compartment and spread it with the edge of the negative or positive. Then lay the negative down in the fluid by starting at one end and continuing on a slant towards the opposite end. Then place about 8 drops at the left end of the negative and lower the top glass at an angle very slowly. If you see any bubbles you can sometimes push slightly on the top glass and squeeze them to the edges. You may find it best to keep raising and lowering the glass until you get it down without any air bubbles showing. If you look up underneath the unit towards a light, you can sometimes spot bubbles that are not visible from the top. You should look very carefully at the image on the easel to see if any are present. A magnifying glass may help.

Use a pointed object to pry the edge of the glass up and then the film. The fluid will dry off the negatives in about 10 minutes. The drying process can be decreased by wiping the film with cotton gloves or photo wipes. If the film will be printed later without fluid we suggest you clean the negative with film cleaner.

FLUID IMMERSION CARRIER – MODEL #FIC

A new Fluid Immersion Negative Carrier has been added to the Carlwen line. As illustrated below, the new carrier will hold a single cut negative and is available for a number of the smaller enlargers. The carrier is available in three sizes. The 35mm carrier holds one 35mm or Instamatic negative. There are two 120mm carriers. One carrier holds either one 2¼ square negative or a 2¼x1⅝ negative, and the other carrier holds one 2¼x2¾ negative.

The carrier is designed to fit on a number of the smaller enlargers without the need for an adapter base which is required with our regular fluid immersion and glassless carriers. This new design is allowing us to keep the price below that of our regular fluid units.



This fluid immersion carrier has been designed so that, with slight modifications by the user, it can be used on the following enlargers: Beseler 23C, 67C, and Printmaker 35; Omega B22, B3-B8, C67, 600, and 700 series; Chromega C; Durst 600 and 601; Focomat 11C; Minolta; Phillips; Rollie 6 x 7CXL; and Vivitar.

The design of the carrier requires that you position the unit in the negative carrier gap by sighting the projected image on the easel board. You may find that there is a little light spill after the carrier has been positioned. If the light spill is bothersome, we suggest that black photographic tape be used to reduce the light spill. It may be necessary to use a riser with some enlargers which we supply with the carrier. With some enlargers, the gap varies enough from model to model that the user will have to devise his own riser.

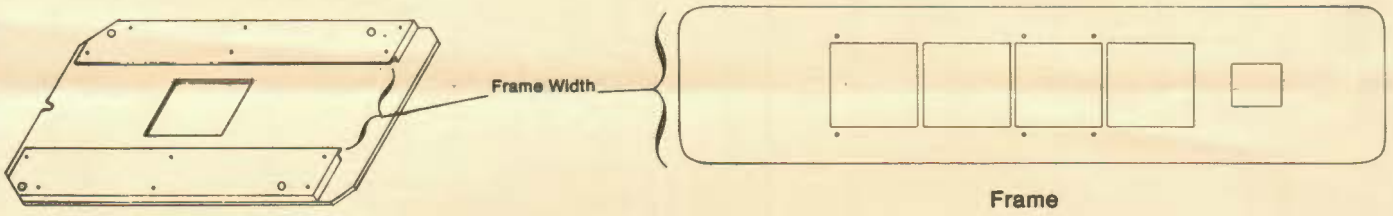
Carlwen Industries, Inc.
P.O. Box 1748
Rockville, MD 20850
(301) 469-6671

PRICE LIST
March 1984

ORDERING INFORMATION
Please read carefully!

- **A complete unit is composed of 2 separate parts**
  - **each part has its own model number**
  - **each part has its own price**

- **A complete unit is comprised of a base/adapter plate and a frame**
  - **the base** (adaptor for enlarger), model number and price are found on page 2 of the price list.
  - **the frame** (film transport), model number and price are found on page 3 of the price list.



Base/Adaptor Plate

Frame

Example: Model #W24TB = $99.00	COST
W = base for an Omega D2 Enlarger	$33.00
24 = Frame for 2¼ inch square negative	42.00
T = Focusing Target	12.00
B = Black anodizing instead of clear	12.00
	$99.00

NOTE: If buying a base by itself you must specify the width of the frame to be used in the base and the negative image size you wish the opening in the base to be, i.e. Model #W (2.5" – 35mm opening).

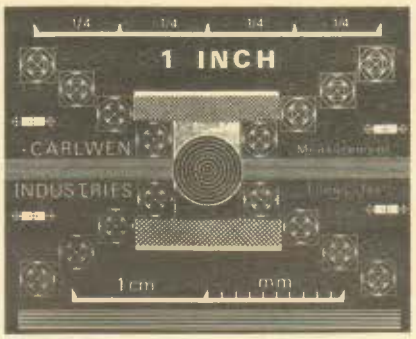
SIX WIDTHS OF NEGATIVE FRAMES ARE USED: A separate base for each width listed below is required. By keeping the width of the frame in proportion to the film width, we obtain optimum flatness in a glassless carrier. This feature we consider to be more important than the savings obtained by using only one size frame for all film sizes. For order purposes, the width need not be shown as the combination of Base & Frame Mod. #, such as W24, provides us with this data.

Frame Width	Film Sizes Used Therein	Maximum width available on Bases as indicated
2.0"	35mm or smaller	Models P, GO, LW
2.5"	35mm or smaller	All bases except P, GO, LW
3.2"	120 & 127 mm	DN, CS, F, FO, GN, GR, GS, H, S
4.0"	120, 127, 70mm Plates & Sheets under 4x5"	All Bases except DC, P, GO, LW, DN, CS, F, FO, GN, GR, GS, H, S
4.8"	4x5, 4x10, 90mm Multiple 35mm	All Bases except as noted above
6.0"	5x7 or other larger sizes	Bases for 5x7 & 8x10 enlargers

FRAMES

Additional compartments: For film or plate frames supplied on special order each additional compartment to the listed model add $20.00 the the price.

Additional cross supports: Film frames may be ordered with additional cross supports over the standard number shown on the price list. Each additional cross support adds $5.00 to the cost of the frame being ordered.



Measurement, Critical Focus & Test Negative: All frames may be ordered with the specially designed Carlwen negative installed for calculating the magnification of print and for prefocusing the negative or plate to be printed. 1" scale with ¼" graduations and 2cm scale with 1mm graduations.

Order by adding "T" as a suffix to the frame number.

Price – Installed in glass plate frame $22.00
Price – Installed in film frame 12.00

Black Anodized Frames: Frame may be ordered black anodized – considered necessary by some users in color printing, electron microscopy work, and with point light sources. Order by adding "B" as a suffix to the frame $12.00

CARLWEN

Base/Adaptor Plates

Carlwen Industries, Inc.
P.O. Box 1748
Rockville, Maryland 20850
(301) 469-6671

Enlarger Make	Models or Descriptions	Carlwen Base Mod. #	Price
Belfort	4 x 5 EN-52	BE	$40.00
Berk & James	Solar	BJ	30.00
Beseler	23C	A	33.00
Beseler	23C with color head	AN	42.00
Beseler	Printmaker 35	BP	33.00
Beseler	45 series & CB7	BW	33.00
Beseler	Same as above with color head	BN	42.00
Beseler	45 MC series with color head	BX	42.00
Beseler	57MB	C	42.00
Beseler	57H or M(diffusion)	BH	45.00
Beseler	67C	F	29.00
Beseler	67C with color head	FO	37.00
DeJur	Versatile #1	D	46.00
DeJur	Versatile #2	DO	33.00
DeJur	Versatile Pro	DP	46.00
Dever	203	MB	42.00
Dever	504	MD	49.00
Dever	507	MF	37.00
Dever	5108	MG	49.00
Durst	C35	DC	33.00
Durst	A-300	GO	42.00
Durst	AC 650	AC	33.00
Durst	M-600	GN	33.00
Durst	M-601	GR	33.00
Durst	M-605	GT	33.00
Durst	606 without condensor (see Note 1)	CW	49.00
Durst	A600,900	H	42.00
Durst	D-659, U-70	J	49.00
Durst	700 or 800 (show Model # on order)	GS	42.00
Durst	L900	LT	42.00
Durst	54 Laborator	K	52.00
Durst	L-138 Laborators S-45, SM 183, S45EM, 138S	L	53.00
Durst	L138 and S45 Models with "Trineg" Carriers	LM	53.00
Durst	184 Laborator	LB	119.00
Durst	L-1000	LN	49.00
Durst	L-1000 with Pavelle 401 Head	LP	42.00
Durst	CE-1000/450 & Pro Model	E	33.00
Durst	L-1000/CLS450	LR	47.00
Durst	L-1200	LS	52.00
Eastman	Kodak Precision A	EA	46.00
Eastman	Kodak Precision B	EB	46.00
Elwood	SP2, SP25 (state Model # on order)	M	49.00
Fotar	4 x 5 series (state Model # on order)	FT	49.00
Honeywell	Nikor	NI	35.00
Leitz	Focomat 1C	P	33.00
Leitz	Focomat 11C	Q	47 00
Leitz	Focomat 11A	LE	47.00
Leitz	Valloy	LV	47.00
Leitz	V35	LW	47.00
Minolta	I & III	MN	32.00
Minolta	II	MC	32.00
Nord	Color 4 x 5 (show Model # on order)	N	52.00
Omega	A-2	R	32.00
Omega	B-22, B-22XL, B66	S	32.00
Omega	B with color head	CS	39.00
Omega	B3 through B10	T	33.00
Omega	D2, D2V, D3, D3V	W	33.00
Omega	5 x 7 series	Y	42.00
Omega	D5 or D6	Z	33.00
Omega	C67	JT	30.00
Omega	C700	CS	33.00
Omega	C-760	CR	36.00
Omega	Super Chromega C	DN	33.00
Omega	Chromega D2 or Converted std. D2	DW	42.00
Omega	Super Chromega D4	DX	42.00
Omega	Super Chromega D5 or D6	DZ	42.00
Omega	Super Chromega E5	DY	49.00
Omega	Super Chromega F(8 x 10 or 10 x 10)	FS	85.00
Omega	D5500	ZY	49.00
Phillips	PCS 130, 150, 2000	PH	42.00
Rollei	6 x 7 CXL, 6 x 7XL	RO	42.00
Vivitar	VI or 356	V	33.00

AXIAL CENTERING BASE: (See Brochure for description)
For Omega D2, D2V, D3, D3V, D5, or D6, or Beseler 45 series
(Show make and model # of enlarger on order) ..... X..... 59.00

MULTISHIFT BASE: (See brochure for description.)
For Beseler or Omega 4x5 series of enlargers ..... MS..... 55.00
For Durst L-138 or S-45, L1000 or Dever 504 ..... MS..... 59.00
(Show make and model # of enlarger on order).

READY MOUNTS: (See brochure for description)
For Omega D series, Beseler 45 series, or CB7..... RM.....275.00
For Super Chromegas D2, D3, D5, D6, Durst L types ..... RM.....325.00
(Show make and model # of enlarger on order).

MICROFICHE BASE & FRAME: (See brochure for description)
For Durst L-138 or S45 series..... LMF46 ..... 185.00
(Specify image size and direction. Opening is about 1/16-inch larger than image.)

LogETRONICS BASE & FRAME:(Inquire for availability & Prices)

Note 1: The Carlwen carrier holds the condensor from your Durst enlarger.

2 x 2 MOUNTED SLIDES (SEE BROCHURE page 3)
Mod. 97 - Holds five 2 x 2 paper mounts $49.00
*Mod. 98 - Holds four 2 x 2 in any type mounts..... 49.00
*Available in 2½ in. frame if specified on order

FULL LENGTH ROLL FILM
Capacity: Full Roll #120 or equal length 70mm $80.00
20 Images 35mm or Instamatic..... 75.00
Sample strips required except for size equal to Carlwen
Mod. 24, 34, 36, 47, 72, 76, or 19. Made on order. Del. 6-8 wks.

VACUUM EASEL & PUMP

16 x 20 Vacuum Easel with white surface $98.00
Vacuum Pump (Hoover Porta Power)..... 90.00

FRAMES

IMAGE SIZES OR DESCRIPTION	STRIP IMAGES	COMPART-MENTS	CROSS BARS	MODEL NO.	FRAME PRICE
35mm or Smaller					
16mm Movie Film	24	1	0	16	38.00
Rollie "16"	10	2	1	14	38.00
Instamatic 110	12	3	2	15	38.00
35mm Aperture Card	-	1	-	17	47.00
24 x 36mm	6	3	2	36	38.00
24 x 36mm	5	2	1	35	38.00
Film Edge # Slots 24 x 35 mm	6	3	2	37	49.00
Film Edge # Slots 24 36mm	5	2	1	38	49.00
W/Film Edge # Slots 24 x 36mm (3-Strip)	3 of 6	6	3	37-3	69.00
W/O Edge # Slots 24 x 36mm (3-Strip)	3 of 6	6	3	36-3	58.00
24 x 36 mm	10	2	1	32	49.00
24 x 36mm-Widelux *1	3	3	2	33	44.00
Instamatic (28 x 28)	6	2	1	19	38.00
Film Edge # Slots Instamatic (28 x 28)	6	2	1	20	55.00
Instamatic (3-Strip) W/Film Edge # Slots	3 of 6	6	3	20-3	75.00
Instamatic (3-Strip) W/O Edge # Slots	3 of 6	6	3	19-3	65.00
Tessina (13.5 x 22)	10	1	0	12	38.00
1⅛ x 1⅛ Beattie	5	5	4	13	49.00
120 & 127mm Film					
1⅝ x 2¼ Bronica ETR	5	5	4	23	42.00
1⅝ x 2¼ Mamiya	5	5	4	29	42.00
1⅝ x1⅝	5	2	1	44	42.00
2¼ x 2¼	4	4	3	24	42.00
2¼ x2¼ *2	4	2	1	25	42.00
2¼ x2¼ *3	4	1	0	26	42.00
2¼ x 2¾	3	3	2	47	42.00
2¼ x3¼	3	3	2	34	42.00
2¼ x 3⅝ Verywide	2	2	1	28	42.00
2¼ x 6⅝ Linhoff Technarama	1	1	-	51	42.00
Hasselblad "16"	3	3	2	34	42.00
70mm Film (Inquire about other 70mm sizes)					
2¼ Sq. Hasselblad	4	4	3	76	42.00
2¼ x 2-7/16 Hulcher	4	4	3	70	49.00
2¼ x 2¾	3	3	2	72	42.00
2½ x 3⅜	3	3	2	73	42.00
2½ x 3⅝	3	3	2	74	42.00
Sig. Corps Combat Camera	3	3	2	71	59.00
90mm Film (Inquire about other 90mm sizes)					
3¼ x 4¼ Camerz	3	3	2	90	54.00
3¼ x 4-1/16 Beattie	3	3	2	91	54.00

IMAGE SIZES OR DESCRIPTION	STRIP IMAGES	COMPART-MENTS	CROSS BARS	MODEL NO.	FRAME PRICE
Sheet Film					
2 x 10	5	2	1	22	$46.00
6.5 x 9cm	-	2	-	56	46.00
70mm Square	-	3	-	79	52.00
3¼ x 4 Polaroid T105	-	2	-	48	46.00
3¼ x 4	-	2	-	41	46.00
3¼ x 3-5/16	-	2	-	58	46.00
3¼ x4¼	-	2	-	46	46.00
4 x 5	-	1	-	54	46.00
4 x 5	-	2	-	45	46.00
4 x 5 Film Pack	-	2	-	55	46.00
4 x 5 Polaroid 545	-	2	-	59	46.00
4 x 10 Image size: 3-1/16 x 3-9/16	3	3	2	81	49.00
(Inquire about negative carrier for microfiche)					
Glass Plates					
2 x 2	-	3	-	27	52.00
2 x 5	-	2	-	52	49.00
2 x 10	-	1	-	21	49.00
6 x 6 cm	-	3	-	60	63.00
6.5 x 9 cm	-	2	-	65	48.00
3¼ x 3¼	-	2	-	83	48.00
3¼ x 4	-	2	-	42	48.00
3¼ x 4¼	-	2	-	43	43.00
4 x 5	-	1	-	82	46.00
4 x 10	-	1	-	49	48.00
1 x 3 Micro Slides	-	2	-	89	46.00
Electron Microscope Roll Film					
35mm-NC 1-7/32 x 1-7/32	5	3	2	40	42.00
35mm-RCA 24 x 32 mm	6	2	1	39	42.00
35mm - Phillips 30 x 30mm	6	2	1	18	42.00
35mm-Joel 26 x 26mm	5	5	2	30	42.00
35mm-Zeiss	6	3	3	31	42.00
120mm-Zeiss 109 with #s	-	2	-	66	46.00
120mm-Zeiss 109 without #s	-	2	-	67	46.00
120mm-Zeiss 109 with #s	4	4	4	53	46.00
120mm-Zeiss 109 without #s	4	4	4	57	46.00
120mm-Joel/Mamiya 6 x 7 back	3	3	2	50	46.00
70mm-Zeiss 109 without #s	-	2	-	61	46.00
70mm-Zeiss 109 with #s	-	2	-	62	46.00
70mm-Zeiss 109 without #s	3	3	2	64	46.00
70mm-Zeiss 109 with #s	3	3	2	68	46.00
70mm-Joel 2¾ x 2¾	3	3	2	75	46.00
70mm-Hitachi H-500 64 x 66mm	3	3	2	69	46.00
70mm-Siemens 2⅞ x 2-9/16	3	3	2	77	46.00
70mm-Phillips 58 x 58mm	3	3	2	78	46.00
(Submit sample negatives for other sizes)					

FLUID IMMERSION FRAMES

	MODEL NO.	
35mm and Instamatic (Strip of 3)	FIF35	$94.00
#120 & 70mm Films	FIF70	99.00
90mm & Sheet Film up to 4x5 (Single Sht.)	FIF45	99.00
Syringe for removing fluid		6.00
Fluid 8 oz.		16.00

See brochure for description and Base requirements.

Fluid Immersion Carrier (Model #FIC) $65.00
(Please specify image size, make and model of enlarger.)

KODAK DISC CARRIERS

KDF $45.00
KDC 75.00

NOTES:
***1 Supply 3-image sample strip.** ***2 For cameras with very erratic spacing.** ***3 Use only when cross supports cannot be tolerated.**

Carlwen Industries, Inc.
P.O. Box 1748
Rockville, MD 20850
(301) 469-6671

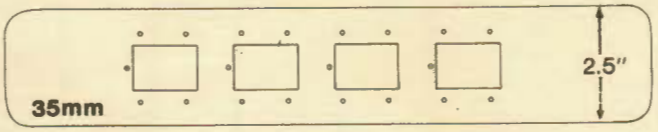
FRAMES MADE TO YOUR REQUIREMENTS

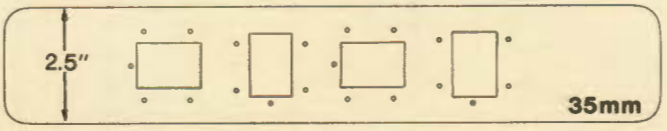
We have found that labs and photographers doing specialized printing or using roll easels have various needs for frame styles based upon their individual operations.

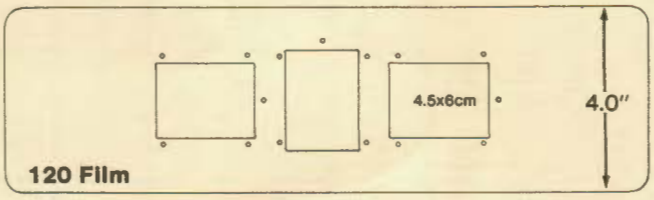
Below are a few examples of frames that we have made from customers' requests. Any combination within certain limitations is possible. These limitations are mainly related to negative size and our standard frame widths of 2.5, 4.0 and 4.8 inches. To retain maximum flatness of negatives, we recommend that the smallest width frame possible be used. Combining negatives of various film thicknesses in the same frame is also going to have an impact on the flatness of each negative in the frame. The opening in the base must be the size of the largest negative in the frame.

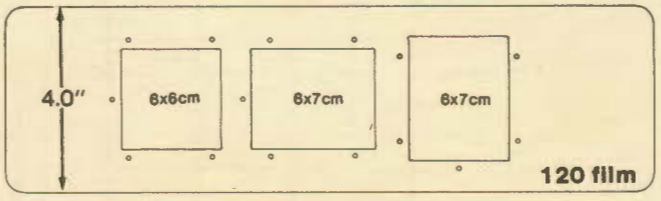
Compartment sizes are standardized and normally grip approximately .075-.100 inch of the film around the negative image. Frames for single negatives have two pins on each side of the long side of the negative and one pin on one end of the narrow side for holding the negative in place.

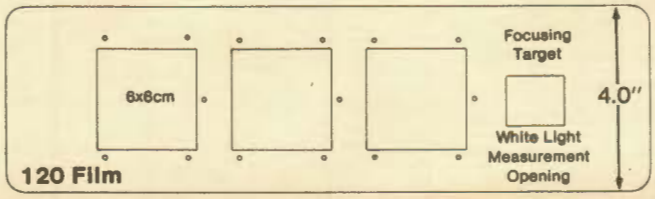
SAMPLE FRAMES

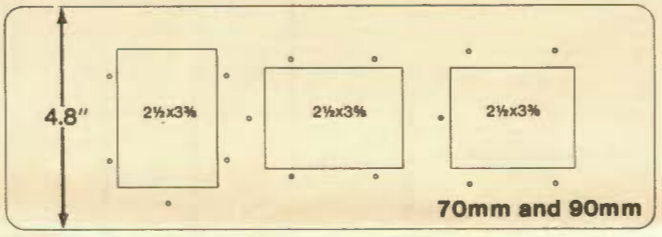












Standard:

35mm and – 4 compartments	2.5" Frames	$55.00
120 and 70mm – 3 compartments	4.0" Frames	55.00
90mm or similar – 2 compartments	4.8" Frames	55.00
Additional compartments above standard		@20.00

Special Size Compartments: For non-standard size compartments made to your requirements add $35.00 to the price of a standard frame with the closest configuration. When ordering carriers for special size plates or negatives, please supply a non-returnable negative or plate. If a strip of film is to be used in the frame we would like a strip twice the length of the number you normally plan to use in the frame. The frame will be made with dimensions equivalent to the average spacing of the negative sample submitted.

COLOR PRINTING AND LIGHT MEASUREMENTS

In color printing methods where white light measurements are taken after composing and focusing, the Carlwen system provides a method for doing this without having to remove the negative carrier from the enlarger and probably run the risk of losing negative position and focus. In the Carlwen system one compartment in a multi-compartment frame is left unloaded. After the loaded negative is composed and focused, the frame is shifted laterally within the base to the unloaded compartment, measurement taken and the negative shifted back into position over the opening in the base. If you are satisfied to load up only one compartment, a stop can be taped to the underside of the frame so that the negative will automatically be in the same position as originally composed.

CARLWEN INDUSTRIES 1128 TAFT STREET, ROCKVILLE, MD. 20850 -- Tel: 301-762-2722

TO CUSTOMER:

The graphite phenolic base and hard aluminum negative frame in this carrier has been selected to give an excellent fit without the use of any lubricant. It will operate for many years without showing any appreciable wear. Occasionally clean the top of the base plate and the underside of the lower negative frame with alcohol. Use 'Dry-Lube' or similar product to loosen up a frame which may become tight in the base.

We recommend you practice lifting off the top negative frame by placing the pad of the right hand on the solid right end of the frame and grasping the lower edge of the top frame by the thumb and the upper edge by the 3rd, 4th & 5th fingers. By squeezing the hand tight in this position you will soon be able to lift off the top frame without lifting the bottom frame.

POSITIONING THE BASE OF THE CARRIER IN THE ENLARGER:

Beseler & Omega - 4 x 5 Series: Models with prefix "W" fit these enlargers. Standard in the base of these models are two holes for positioning in the Omega. Four screws furnished with each carrier are inserted in the blind screw holes in the underside of the base plate for positioning the carrier in the Beseler.. When the order indicates the carrier is to be used on a Beseler these screws have been inserted. If the customer inserts these screws the base plate and the negative frame retaining guide should be held closely together while inserting the screws. This eliminates a possible separation of these two parts when the screws are inserted. DO NOT OVER-TIGHTEN SCREWS !!!!!

Beseler, Omega - 2¼ x 3¼ Series: Positioning is by screws in the 35 mm. types and by a ring attached under the base of the carrier for larger frame types. Omega S9 or B10 require adapter ring of the same type as Chromega.

DeJur Professional: Positioning is by four screws underneath the base, the same as for the Beseler 4 x 5 series.

Chromega - 4 x 5 Series: Screws and screw holes similar to the Beseler are used to position the carrier. The adapter required for the Chromega is placed between the sponge-rubber gasket and the carrier, white side up! The opening in this ring has been made as small as possible in order that the maximum reflectivity can be obtained. The ring must, therefore, be carefully centered. The black plates underneath the ring should be placed vertically between the frame guides of the base. In addition to holding the ring in place they protect against light spill which could be undesirable in color printing. If the carrier is used only on the Chromega you may find it desirable to permanently attach the ring to the carrier base with two small screws. Machine screws with taped screw-threads are preferred to wood screws. Use flat heads and counter-sink.

Durst - All models for which Carlwen carriers are available: If the enlarger has film troughs, remove them before inserting the Carlwen carrier. The flexible top braces provide the necessary pressure to hold the base in the enlarger by friction. The open end of the flexible top braces should be inserted towards the back of the enlarger.

Elwood - SP5 and SP 25: Two sets of screw holes are installed underneath the carrier base for positioning in the various Elwood enlargers. Because there are some variations in the framework of the carrier opening, two types of screws are supplied for inserting in left side of the carrier base. After inserting the base, insert the thumbscrew on the right side.

Focomat II-C: To insert the Carlwen carrier, remove the side brackets as noted on the enclosed photocopy. The open end of the base framework goes to the back of the enlarger. The lamp-house and condenser housing rest on the top frame of the carrier. Removing the brackets does not prevent the use of the regular Leitz carrier. However, care must be taken that it does not pull completely out as this is the purpose of the brackets.

Leitz Focomat I-C & Valoy: Tilt the lamp housing condenser assembly to insert the carrier base. When lowering the assembly on top of the carrier base on the Focomat raise the condenser to the top position. For the Valoy push up on the condenser spring arrangement before bringing it forward into its upright position. This will eliminate any chance of damaging the leading edge of the back retaining guide of the base which could be caused by the condenser coming down at an angle against this edge. The head of the small screw underneath the base is placed in the same recess as the pin of the standard Leitz carrier.

Omega A-2 & A-22: It may be necessary to loosen the screws which hold the bellows framework and lower it to allow for the added thickness of the Carlwen carriers. When lowering this assembly, be sure it remains level with the easel board.

Omega D-6: (Carlwen Base Mod. Z) Positioning is by four screws inserted underneath the base at the factory and which fit into the carrier table opening.

Omega & Beseler - 5 x 7 Series: The four holes in the base position the carrier in the Omega. It will position either across the easel or parallel with it. When running the carrier in the parallel position it may be necessary to file-down the stop-pin for the regular Omega carrier. The four screws in the underside of the base positions the carrier in the Beseler. It does not fit flush up against the back frame-work but is sufficiently large to cover the 5 x 7 opening.

Axial Centering Base: By shifting the base from front to back and turning the frame 180 degrees any point on the plate can be placed in the optical center of the enlarging system.

SPECIAL INSTRUCTIONS

Over the years the carrier gap in the Durst L138, S45 enlargers has varied somewhat. Since we cannot know from which production run your enlarger came, if your base is too loose in the enlarger carrier gap, there are four shims taped to the base which should be inserted between the side top framing bars and the frame retaining guides.

To insert the shims, loosen the screws underneath the base about two turns, lift up the top frame bars and insert the shims from the side and tighten the screws. No shim is provided for the front bar.

Thank you for your order. If any part of your carrier should become broken it may be returned for repair at a very nominal charge plus postage. Your suggestions for improvements to our carriers is welcomed.